



For contract construction projects



W20-1(O)-48

For maintenance and utility projects



W21-4(O)-48



W21-1a(O)-48  
OR



W21-1110(O)-48

## TYPICAL APPLICATIONS

Utility operations  
Culvert extensions  
Side slope changes  
Guardrail installation and maintenance  
Delineator installation  
Landscaping operations  
Shoulder repair  
Sign installation and maintenance

## SYMBOLS



Work area



Sign



Cone, drum or barricade

## GENERAL NOTES

This Standard is used where at all time, any vehicles, equipment, worker or their activities will encroach in the area from 4.5 m (15') to the edge of pavement, except where activities will result in a dropoff greater than 75 mm (3") within 600 mm (24") of pavement.

If the operation is 4.5 m (15') or more off the pavement edge, no signing or cones will be required, unless two or more vehicles cross the 4.5 m (15') clear zone in one hour.

\* When working within 600 mm (24") of the pavement edge, cones, drums or barricades shall be placed at 8 m (25') centers for L/3 distance, 15 m (50') centers through remainder of work area.

Shoulder tapers should have a minimum length of L/3.

Where L is:

SPEED LIMIT

FORMULAS

70 km/h (40 mph)  
or less:

Metric (English)  
 $L = \frac{WS^2}{150}$   $L = \frac{WS^2}{60}$

80 km/h (45 mph)  
or greater:

$L = 0.65(W)(S)$   $L = (W)(S)$

W = Width of offset  
in meters (feet).

S = Normal posted speed  
km/h (mph).

All dimensions are in millimeters (inches)  
unless otherwise shown.

Illinois Department of Transportation	
APPROVED January 1, 1998	ISSUED 1-1-97
ENGINEER OF OPERATIONS	
APPROVED January 1, 1998	
ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-98	Rev. 1st GEN. NOTE.
	Rev. (24') to (24") in 3rd GEN. NOTE.
1-1-97	Renum. Standard 2302-9.

OFF-RD OPERATIONS 2L, 2W  
4.5 m (15') TO PAVEMENT EDGE  
FOR SPEEDS  $\geq$  45 MPH

STANDARD 701006-01